

Analysis Report

2425 New Holland Pike, Lancaster, PA 17681 • 757-656-2300 • Fax: 717-656-6766 • www.EurotineitS.com/LanciabsEnv

Partial Report

Sample Description: Ex. 6 - Personal Privacy

Tetra Tech, Inc. ELLE Sample #: ELLE Group #: Matrix: Water

Ex. 6 - Personal Privacy

Project Name:

Wolverine World Wide Tannery

Submittal Date/Time: 12/29/2017 10:00 Collection Date/Time:___ 12/27/2017 14:20 SDG#: Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. (Organics EF	PA 537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for	N-ethyl perfluorooctanesulfonar	nidoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym fo	r N-methyl perfluorooctanesulfo	namidoacetic Acid.		
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1
Tho	recovery for DEHVS in the labora	tory fortified blank duplicate			

The recovery for PFHxS in the laboratory fortified blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary.

The data reported should be considered prelimimary as this sample will be re-extracted.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18004006	01/08/2018 07:47	Marissa C Drexinger	1

Sample Description:

Ex. 6 - Personal Privacy

Tetra Tech, Inc. ELLE Sample #: ELLE Group #: Matrix: Water

Ex. 6 - Personal Privacy

Submittal Date/Time:

Project Name:

Wolverine World Wide Tannery

12/29/2017 10:00 Collection Date/Time: 12/27/2017 14:30 SDG#: Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc.	Organics	EPA 537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acro	nym for N-ethyl perfluorooctanesulfonar	nidoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acr	onym for N-methyl perfluorooctanesulfo	namidoacetic Acid.		
14070	Perfluorobutanesulfona	ate 375-73-5	15	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1

Reference ID:

1891721080118164347



Analysis Report

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Partial Report

Sample Description:

Ex. 6 - Personal Privacy

ELLE Sample #: ELLE Group #:

Tetra Tech, Inc.

Matrix: Water

Ex. 6 - Personal Privacy

Project Name:

Wolverine World Wide Tannery

Submittal Date/Time: Collection Date/Time:

12/29/2017 10:00 12/27/2017 1A:30. Ex. 6 - Personal Privacy

SDG#:

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. (Organics	EPA 537 Version 1.1	ng/l	ng/l	
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	4 J	2	1
14070	Perfluorohexanesulfonate	355-46-4	5	2	1
14070	Perfluorohexanoic acid	307-24-4	8	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	9	2	1
14070	Perfluorooctanoic acid	335-67-1	14	2	1
14070	Perfluorotetradecanoic aci	d 376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1
The r	ecovery for PFHxS in the lat	poratory fortified blank duplicate			

(LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered prelimimary as this sample will be re-extracted.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18004006	01/08/2018 07:58	Marissa C Drexinger	1

Sample Description

Ex. 6 - Personal Privacy

Project Name:

Wolverine World Wide Tannery

Submittal Date/Time: Collection Date/Time: SDG#:

12/29/2017 10:00 12/27/2017 15:05 Ex. 6 - Personal Privacy

Tetra Tech, Inc. ELLE Sample #: **ELLE Group #:** Matrix: Water

Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. C	rganics	EPA 537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym	for N-ethyl perfluorooctanesulfonam	idoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronyr	n for N-methyl perfluorooctanesulfon	amidoacetic Ac	id.	
14070	Perfluorobutanesulfonate	375-73-5	14	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	4 J	2	1
14070	Perfluorohexanesulfonate	355-46-4	4 J	2	1
14070	Perfluorohexanoic acid	307-24-4	8	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	7	2	1

Reference ID:

1891721080118164347

Partial Report

Ex. 6 - Personal Privacy



Lancaster Laboratories Environmental

Analysis Report

Tetra Tech, Inc. ELLE Sample #:

ELLE Group #:

Matrix: Water

2425 New Molland Pike, Lancaster, PA 17691 • 717-656-2300 • Fax: 717-656-6766 • www.Eurotinst/S.com/LencLabsEnv

Sample Description:

Ex. 6 - Personal Privacy

Project Name:

Wolverine World Wide Tannery

Submittal Date/Time: Collection Date/Time: SDG#:

12/29/2017 10:00 12/27/2017 15:05 Ex. 6 - Personal Privacy

CAT Dilution Method **CAS Number Analysis Name** No. Result Factor **Detection Limit** EPA 537 Version 1.1 ng/l ng/l Misc. Organics 14070 Perfluorooctanoic acid 335-67-1 12 2 14070 376-06-7 N.D. 3 Perfluorotetradecanoic acid 1 14070 Perfluorotridecanoic acid 72629-94-8 N.D. 2 14070 Perfluoroundecanoic acid 2058-94-8 N.D.

The recovery for PFHxS in the laboratory fortified blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered prelimimary as this sample will be re-extracted.

Laboratory Sample Analysis Record

Method CAT Dilution Analysis Name Trial# Batch# **Analysis** Analyst No. Date and Time Factor 14070 Full List PFAS - DW EPA 537 Version 1.1 18004006 01/08/2018 08:22 Marissa C Drexinger

Sample Description:

Ex. 6 - Personal Privacy

Project Name: Wolverine World Wide Tannery

Submittal Date/Time: Collection Date/Time: SDG#:

12/29/2017 10:00 12/27/2017 15:58 Ex. 6 - Personal Privacy Tetra Tech, Inc. ELLE Sample #: **ELLE Group #:** Matrix: Water

Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc.	Organics	EPA 537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronyn	for N-ethyl perfluorooctanesulfona	midoacetic Acid.		
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acrony	n for N-methyl perfluorooctanesulfo	onamidoacetic Acid.		
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic ac	d 376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1
		oratory fortified blank duplicate ce limits as noted on the QC Sumr	nary.		

Reference ID: 1891721080118164347



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Partial Report

Sample Description:

Ex. 6 - Personal Privacy

Ex. 6 - Personal Privacy

Project Name:

Wolverine World Wide Tannery

Submittal Date/Time: Collection Date/Time: SDG#: 12/29/2017 10:00 12/27/2017 15:58 Ex. 6 - Personal Privacy

CAT No.

14070

Analysis Name

Full List PFAS - DW

CAS Number

Result

Method Detection Limit Dilution Factor

The data reported should be considered prelimimary as this sample

will be re-extracted.

Laboratory Sample Analysis Record

CAT Analysis Name No.

Method

EPA 537 Version 1.1

Trial#

Batch# 18004006 Analysis Date and Time 01/08/2018 08:45 Analyst

Tetra Tech, Inc.

ELLE Sample #: ELLE Group #:

Matrix: Water

Dilution Factor

Marissa C Drexinger 1

Reference ID: 1891721080118164347

Environmental Analysis Request/Chain of Custody

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Environmental Analysis Request/Chain of Custody

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Environmental Analysis Request/Chain of Custody

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Sample Administration Receipt Documentation Log

Doc Log ID: 205017

Group Number(s): 1891721

Client: MSG/TETRA TECH

Delivery and Receipt Information

Delivery Method: Fed Ex Arrival Timestamp: 12/29/2017 10:00

Number of Packages: $\underline{4}$ Number of Projects: $\underline{1}$

State/Province of Origin: MI

Arrival Condition Summary

Shipping Container Sealed: Yes Sample IDs on COC match Containers: Yes Custody Seal Present: Yes Sample Date/Times match COC: Yes

Custody Seal Intact: Yes VOA Vial Headspace ≥ 6mm: N/A

Samples Chilled: Yes Total Trip Blank Qty: 0

Paperwork Enclosed: Yes | Air Quality Samples Present: No

Samples Intact: Yes

Missing Samples: No Extra Samples: No

Discrepancy in Container Qty on COC: No

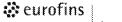
Unpacked by Wendy Wakeley (1669) at 11:06 on 12/29/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler#	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	3.6	DT	Wet	Υ	Bagged	N
2	DT146	1.3	DT	Wet	Υ	Bagged	N
3	DT146	0.4	DT	Wet	Υ	Bagged	N
4	DT146	1.0	DT	Wet	Υ	Bagged	N

Page 1 of 1



RMOL

Dry weight

Lancaster Laboratories Environmental

Below Minimum Quantitation Level

Explanation of Symbols and Abbreviations

milligram(s)

The following defines common symbols and abbreviations used in reporting technical data:

DIVIGE	Delow William Quantitation Level	iiig	mingram(s)
С	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	non-detect
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	μg	microgram(s)
m3	cubic meter(s)	μL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm
<	less than		
>	greater than		
ppm		oe equivalent to milli	kilogram (mg/kg) or one gram per million grams. For igrams per liter (mg/l), because one liter of water has a weight uivalent to one microliter per liter of gas.
ppb	parts per billion		

ma

basis concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
С	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
Ε	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
Р	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised
	due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.